

GenCore version 5.1.6
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OM nucleic - nucleic search, using sw model

Run on: December 9, 2003, 10:32:57 ; Search time 326 Seconds

(without alignments)
7104.656 Million cell updates/sec

Title: US-09-892-316-2

Perfect score: 858

Sequence: 1 GCGGTGGTACTGACTAGC.....TGCCCTCCCTTCATTGTACT 858

Scoring table: IDENTITY_NUC

Gapop 10.0 , Gapext 1.0

Searched: 2552756 seqs, 1349719017 residues

Total number of hits satisfying chosen parameters: 5105512

Minimum DB seq length: 0

Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%

Maximum Match 100%

Listing first 45 summaries

Database: N Geneseq 19Jun03:*

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24: /SIDSI/gcgdata/geneseq/geneseqn-emb1/NA2002.DAT:*

25: /SIDSI/gcgdata/geneseq/geneseqn-emb1/NA2003.DAT:*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	ID	Description
1	858	100.0	858	19 AAV45175	Human LEA-motif de
2	853.6	99.5	1549	21 AAA46361	Nucleotide sequenc
3	524.4	61.1	1149	22 ABA09672	Human bone marrow
4	436.2	50.8	601	21 AAA16360	Human colon cancer
5	382.6	44.6	1300	23 AAS66254	DNA encoding novel
6	380.2	44.3	620	22 ABA09588	Human bone marrow
7	374.2	43.6	1298	23 AAS65873	DNA encoding novel
8	357	41.6	501	23 AAS73953	DNA encoding novel

C	9	314.6	36.7	384	20	AAV86069	EST clone D14. Ho
10	289.4	33.7	406	25	ABX47759	Bovine EST associa	
C	11	251	29.3	281	24	ABN94115	Gene #613 used to
12	188.6	22.0	983	24	ABN73957	Bovine embryonic g	
C	13	184.2	21.5	416	22	AAH83599	Human ovarian tumo
C	14	182	21.2	316	22	AAS24954	Human ovarian PCR-
15	162.4	18.9	930	24	ABN73958	Bovine embryonic g	
16	148.2	17.3	257	25	ABX54860	Bovine EST associa	
17	132.8	15.5	948	24	ABN74707	Bovine embryonic g	
18	86.6	10.1	475	23	AAS73954	DNA encoding novel	
19	69.2	8.1	1099	23	ABL04817	Drosophila melanog	
C	20	69.2	8.1	3547	23	ABL04816	Drosophila melanog
21	49.4	5.8	2765	21	AAA96707	Reporter gene YLR1	
22	48.8	5.7	709	20	AAZ15183	Human gene express	
23	40.4	4.7	511	24	ABN73443	Bovine embryonic g	
24	40.2	4.7	4804	21	AAZ46086	cDNA encoding a re	
C	25	40	4.7	4457	23	ABL06791	Drosophila melanog
C	26	40	4.7	9051	23	ABL06790	Drosophila melanog
27	39.4	4.6	404	25	ABZ55322	Aspergillus oryzae	
C	28	39.4	4.6	1588	22	AAH26304	Spider silk protei
29	39.2	4.6	1665	23	ABU28565	Drosophila melanog	
30	39.2	4.6	3633	18	AAT97611	Drosophila melanog	
C	31	39.2	4.6	3665	23	ABU28584	Mouse E2A-binding
32	39.2	4.6	3728	15	AAQ58708	Drosophila melanog	
33	39	4.5	1626	22	AAI59140	Mouse Osr-5 coding	
34	39	4.5	1685	24	ABU50340	Human polynucleoti	
35	39	4.5	2556	22	AAI60926	Human cancer cell	
36	39	4.5	3048	24	ABZ52329	Human gene express	
37	38.8	4.5	2166	24	ABU55863	Human oxidoeducta	
38	38.8	4.5	50000	21	AAA64139	Nucleotide sequenc	
39	38.6	4.5	1566	23	ABU13201	Drosophila melanog	
C	40	38.6	4.5	2927	23	ABU13202	Drosophila melanog
C	41	38.6	4.5	3636	23	ABU13200	Drosophila melanog
42	38.4	4.5	786	20	AAI39713	Gastric cancer ass	
43	38.4	4.5	927	20	AAI39716	Gastric cancer ass	
44	38.4	4.5	1011	24	ABZ34915	Human gene express	
45	38.4	4.5	1187	24	ABZ35437	Human gene express	

ALIGNMENTS

RESULT 1

AAV45175

ID AAV45175 standard; DNA; 858 BP.

XX AAV45175;

AC AAV45175;

XX 29-OCT-1998 (first entry)

XX Human LEA-motif developmental protein coding sequence.

DE LEA-motif developmental protein; human; HuLEAP; tissue regeneration;
XX abnormal cellular differentiation; hypoadosteronism; Addison's disease;
KW hypothyroidism; colorectal polyps; duodenal ulcer; cancer; therapy;
KW late embryogenesis abundant protein; cell proliferation induction; ss.

XX Homo sapiens.

XX Key Location/Qualifiers
FH CDS 130..790
FT CDS /*tag= a
FT CDS /product= HuLEAP

XX WO9835041-A1.

XX 13-AUG-1998.

XX 05-FEB-1998; 98WO-US02470.

XX 06-FEB-1997; 97US-0796676.

XX (INCY-) INCYTE PHARM INC.

PT New human late embryogenesis abundant-like protein - useful to treat
 PT disordered cell proliferation and growth, or to induce tissue
 PT regeneration
 XX
 XX Claim 5; Fig 1; 57pp; English.
 XX
 CC This sequence is the human LEA (late embryogenesis abundant)-motif
 CC protein (Huleap) of the invention. Cells containing the DNA are used to
 CC produce recombinant Huleap. Huleap and its agonists (optionally expressed
 CC from gene therapy vectors) are used to treat disorders that involve
 CC abnormal cellular differentiation or growth, e.g. hypoadosteronism,
 CC Addison's disease, hypothyroidism, colorectal polyps, gastric and
 CC duodenal ulcers, haematopoietic, lymphoid or many other forms of cancer.
 CC Antagonists of Huleap, e.g. Ab, antisense or untranslatable sense
 CC sequences or ribozymes, are used to induce cell proliferation,
 CC particularly in tissues that do not regenerate under normal conditions,
 CC e.g. in cases of trauma or degenerative diseases, and for in vivo/in
 CC vitro stimulation of skin growth for grafting. Ab can be used as an
 CC antagonist, as carrier to deliver agents to Huleap-expressing cells, as
 CC immunocassay for (diagnostic) detection of Huleap, in competitive drug
 CC screens and to purify Huleap from natural sources. Fragments of the DNA
 CC can be used diagnostically (in hybridisation or amplification tests), for
 CC mapping genomic sequences and in drug screening.
 XX
 SQ Sequence 219 AA;

Query Match 100.0%; Score 1130; DB 19; Length 219;
 Best Local Similarity 100.0%; Pred. No. 1.5e-106;
 Matches 219; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
 QY 1 MVXYFLGQSVLRSSWDQVFAAFWQRYPNPKYKHLVTEIVHREVTDPQKLSRLLTXTN 60
 DB 1 MVXYFLGQSVLRSSWDQVFAAFWQRYPNPKYKHLVTEIVHREVTDPQKLSRLLTXTN 60
 QY 61 RMPRWAERLFPANVAHSVYVLEDSIVDPQNTMTFTTNINHARLMVVEERCVCVNSDN 120
 DB 61 RMPRWAERLFPANVAHSVYVLEDSIVDPQNTMTFTTNINHARLMVVEERCVCVNSDN 120
 QY 121 SGWTEIRREAWVSSSLFGVSRVAVQEFGLARFKSNVTYTKMGFEYILAKLQGEAPSCTLVE 180
 DB 121 SGWTEIRREAWVSSSLFGVSRVAVQEFGLARFKSNVTYTKMGFEYILAKLQGEAPSCTLVE 180
 QY 181 TAKEAKEKAKETALAATEKADLASKAATKKQKQKQKQFV 219
 DB 181 TAKEAKEKAKETALAATEKADLASKAATKKQKQKQKQFV 219

RESULT 2
 ABG09766
 ID ABG09766 standard; Protein; 167 AA.

XX AC ABG09766;
 XX
 DT 13-FEB-2002 (first entry)
 XX
 DE Novel human diagnostic protein #9757.

XX Human; chromosome mapping; Gene mapping; gene therapy; forensic;
 XX food supplement; medical imaging; diagnostic; genetic disorder.
 XX

OS Homo sapiens.
 XX
 XX WO200175067-A2.
 XX
 XX 11-OCT-2001.
 XX

XX 30-MAR-2001; 2001WO-US08631.
 XX
 XX 31-MAR-2000; 2000US-0540217.
 XX
 XX 23-AUG-2000; 2000US-0649167.
 XX
 XX (HYSE-) HYSEQ INC.
 XX

PI Drmanac RT, Liu C, Tang YT;
 XX
 DR WPI; 2001-639362/73.
 DR N-PSDB; AAS73953.
 XX

PT New isolated polynucleotide and encoded polypeptides, useful in
 PT diagnostics, forensics, gene mapping, identification of mutations
 PT responsible for genetic disorders or other traits and to assess
 PT biodiversity

XX Claim 20; SEQ ID No 40125; 103pp; English.

XX The invention relates to isolated polynucleotide (I) and
 CC polypeptide (II) sequences. (I) is useful as hybridisation probes,
 CC polymerase chain reaction (PCR) primers, oligomers, and for chromosome
 CC and gene mapping, and in recombinant production of (II). The
 CC polynucleotides are also used in diagnostics as expressed sequence tags
 CC for identifying expressed genes. (I) is useful in gene therapy techniques
 CC to restore normal activity of (II) or to treat disease states involving
 CC (II). (II) is useful for generating antibodies against it, detecting or
 CC quantitating a polypeptide in tissue, as molecular weight markers and as
 CC a food supplement. (II) and its binding partners are useful in medical
 CC imaging of sites expressing (II). (I) and (II) are useful for treating
 CC disorders involving aberrant protein expression or biological activity.
 CC The polypeptide and polynucleotide sequences have applications in
 CC diagnostics, forensics, gene mapping, identification of mutations
 CC responsible for genetic disorders or other traits to assess biodiversity
 CC and to produce other types of data and products dependent on DNA and
 CC amino acid sequences. ABG00010-ABG30377 represent novel human
 CC diagnostic amino acid sequences of the invention.

CC Note: The sequence data for this patent did not appear in the printed
 CC specification, but was obtained in electronic format directly from WIPO
 CC at ftp.wipo.int/pub/published_pct_sequences.

XX SQ Sequence 167 AA;

Query Match 64.3%; Score 726.5; DB 22; Length 167;
 Best Local Similarity 69.6%; Pred. No. 1.1e-65;
 Matches 149; Conservative 8; Mismatches 10; Indels 47; Gaps 2;

QY 1 MVXYFLGQSVLRSSWDQVFAAFWQRYPNPKYKHLVTEIVHREVTDPQKLSRLLTXTN 60
 DB 1 MVXYFLGQSVLRSSWDQVFAAFWQRYPNPKYKHLVTEIVHREVTDPQKLSRLLTXTN 60
 QY 61 RMPRWAERLFPANVAHSVYVLEDSIVDPQNTMTFTTNINHARLMVVEERCVCVNSDN 120
 DB 43 -----NQMTTFTTNINHARPNVVEERCVCVNSDN 73
 QY 121 SGWTEIRREAWVSSSLFGVSRVAVQEFGLARFKSNVTYTKMGFEYILAKLQGEAPSCTLVE 180
 DB 74 SGWTEIRREAWVSSSLFGVSRVAVQEFGLARFKSNVTYTKMGFEYILAKLQGEAPSCTLVE 180
 QY 181 TAKEAKEKAKETALAATEKADLASKAATKKQKQKQKQ 214
 DB 134 TAKEAKEKAKETALAATEKADLASKAATKKQKQKQ 167

RESULT 3
 ABG12426
 ID ABG12426 standard; Protein; 99 AA.

XX AC ABG12426;
 XX
 XX 15-JAN-2002 (first entry)
 XX
 DE Human bone marrow expressed protein SEQ ID NO: 265.

XX Human; bone marrow; cytostatic; antirheumatic; antiarthritic; vulnery;
 KW antinflammatory; antibacterial; immunosuppressive; vasotropic; cancer;
 KW antiparkinsonian; neuroprotective; nootropic; haemostatic; osteopathic;
 KW antiulcer; fungicide; antidiabetic; antiasthmatic; antiallergic;
 KW immunostimulant; analgesic; cerebroprotective; antianaemic; infection;
 KW nervous system disorder; autoimmune disorder; inflammation; allergy.

GenCore version 5.1.6
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OM protein - protein search, using sw model

Run on: December 9, 2003, 12:58:13 ; Search time 73 Seconds
(without alignments)
476.180 Million cell updates/sec

Title: US-09-892-316-1

Perfect score: 1130

Sequence: 1 MVXYFLQSVLRSSWDQVFA.....AKDLAKAATKKQQQQQFV 219

Scoring table: BLOSUM62

Gapop 10.0 , Gapext 0.5

Searched: 1107863 seqs, 158726573 residues

Total number of hits satisfying chosen parameters: 1107863

Minimum DB seq length: 0

Maximum DB seq length: 2000000000

Post-processing: Maximum Match 0%

Listing first 45 summaries

Database : A Geneseq 19Jun03.*

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Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	DB ID	Description
1	1130	100.0	219	19	AAW61538 Human LEA-motif de
2	726.5	64.3	167	22	ABG09766 Novel human diagno
3	339.5	30.0	99	22	ABB12426 Human bone marrow
4	245.5	21.7	98	22	ABG02067 Novel human diagno
5	229	20.3	171	22	ABE59225 Drosophila melanog
6	217.5	19.2	82	22	ABG01686 Novel human diagno
7	200.5	17.7	194	21	AA03814 Human vesicle traf
8	200.5	17.7	194	21	AA049959 Human vesicle traf
9	200.5	17.7	194	22	AA093664 Human protein sequ

10	198	17.5	215	22	ABB64259	Drosophila melanog
11	179.5	15.9	183	21	AA017835	Arabidopsis thalia
12	179.5	15.9	222	21	AA017834	Arabidopsis thalia
13	148	13.1	75	22	ABG09767	Novel human diagno
14	143	12.7	117	23	ABP03962	Human ORFX protein
15	142.5	12.6	164	23	ABP69539	Human polypeptide
16	139.5	12.3	715	24	ABU03523	Angiogenesis-assoc
17	137	12.1	696	24	AAE34445	Human lipid-associ
18	125	11.1	659	22	ABB64495	Drosophila melanog
19	114	10.1	177	22	AA036623	Human FLEXHT-45 pr
20	111	9.8	138	21	AA020424	Arabidopsis thalia
21	108	9.6	387	22	ABG27715	Novel human diagno
22	98	8.7	59	21	AA02195	Human secreted pro
23	89	7.9	674	21	AA01922	Candida albicans S
24	88.5	7.8	2101	21	AA049936	Human NuMA protein
25	87	7.7	140	22	ABG27711	Novel human diagno
26	85.5	7.6	417	22	ABG17962	Novel human diagno
27	85.5	7.6	433	18	AAW30256	Zuotin. Saccharom
28	85.5	7.6	433	20	AA032954	Human zuotin prote
29	85.5	7.6	433	22	AA070739	S cerevisiae apopt
30	83.5	7.4	2101	15	AA047173	Nuclear mitotic ap
31	83.5	7.4	2101	22	AA065799	Novel human secret
32	83.5	7.4	2207	22	AAU32041	Aspergillus fumiga
33	83.5	7.4	2356	24	ABU25846	Human novel cytoxi
34	83.5	7.4	2816	22	AAU68572	Aspergillus fumiga
35	83.5	7.4	3170	24	ABJ26446	Drosophila melanog
36	83	7.3	7201	22	ABJ71136	Listeria monocytog
37	82.5	7.3	260	23	ABH48773	Polysketide synthas
38	82.5	7.3	427	18	AAW34211	Drosophila melanog
39	82.5	7.3	904	22	ABJ71477	Larval viability a
40	82.5	7.3	904	23	ABG70014	Human lipid-associ
41	81.5	7.2	780	24	AAE34441	Yeast SYR2, confer
42	81	7.2	349	21	AA098038	Streptomyces roseo
43	81	7.2	426	19	AAW55812	Drosophila melanog
44	80.5	7.1	1354	22	ABE60329	Human kinesin moto
45	80.5	7.1	1637	23	ABJ79896	

ALIGNMENTS

RESULT 1

AAW61538

ID AAW61538 standard; Protein; 219 AA.

XX AAW61538;

XX 29-OCT-1998 (first entry)

XX Human LEA-motif developmental protein.

XX LEA-motif developmental protein; human; HuLEAP; tissue regeneration;
XX abnormal cellular differentiation; hypoadosteronism; Addison's disease;
XX hypothyroidism; colorectal polyps; duodenal ulcer; cancer; therapy;
XX late embryogenesis abundant protein; cell proliferation induction.

OS Homo sapiens.

XX WO9835041-A1.

XX 13-AUG-1998.

XX 05-FEB-1998; 98WO-US02470.

XX 06-FEB-1997; 97US-0796676.

XX (INCY-) INCYTE PHARM INC.

XX Goli SK, Hillman JL;

XX WPI; 1998-447238/38.

XX N-PSDB; AAV45175.

XX

RESULT 1

ID PX19 HUMAN STANDARD; PRT; 219 AA.

AC Q9Y255; Q9UI13; Q9UUS9;

DT 15-SEP-2003 (Rel. 42, Created)

DT 15-SEP-2003 (Rel. 42, Last sequence update)

DT 15-SEP-2003 (Rel. 42; last annotation update)

DE Pxl9-like protein (25 Kda protein of relevant evolutionary and lymphoid interest) (PRELI) (CGI-106) (SBB112).

GN PRELI.

OS Homo sapiens (Human).

OC Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi; Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo.

OX NCBI_TaxID=9606;

[1]

RN RP SEQUENCE FROM N.A.

RC TISSUE=Tonsil;

RX MEDLINE=20247012; PubMed=10784606;

RA Guzman-Rojas L., Sims J.C., Rangel R., Gurst C., Sun Y., Alcocer J.M., Martinez-Valdez H.;

RT "PRELI, the human homologue of the avian pxl9, is expressed by germinal center B lymphocytes.";

RL Int. Immunol. 12:607-612(2000).

[2]

RN RP SEQUENCE FROM N.A.

RX MEDLINE=20272150; PubMed=10810093;

RA Lai C.-H., Chou C.-Y., Chang L.-Y., Liu C.-S., Lin W.-C.;

RT "Identification of novel human genes evolutionarily conserved in Caenorhabditis elegans by comparative proteomics.";

RL Genome Res. 10:703-713(2000).

[3]

RN RP SEQUENCE FROM N.A.

RC TISSUE=Dermal papilla;

RA Kim M.-K., Kim Y.H., Seo J.M., Lee H.M., Chung H.J., Sohn M.Y., Hwang S.Y., Im S.U., Jung E.J., Lee J.H., Kim J.C.;

RT "A catalogue of genes in the human dermal papilla cells as identified by expressed sequence tags.";

RL Submitted (MAY-1999) to the EMBL/GenBank/DBJ databases.

[4]

RN RP SEQUENCE FROM N.A.

RA Zhang W., He L., Wan T., Zhu X., Cao X.;

RL Submitted (DEC-1998) to the EMBL/GenBank/DBJ databases.

[5]

RN RP SEQUENCE FROM N.A.

RC TISSUE=Adrenal gland;

RX MEDLINE=20402571; PubMed=10931946;

RA Hu R.-M., Han Z.-G., Song H.-D., Peng Y.-D., Huang Q.-H., Ren S.-X., Gu Y.-J., Huang C.-H., Li Y.-B., Jiang C.-L., Fu G., Zhang Q.-H., Gu B.-W., Dai M., Mao Y.-F., Gao G.-F., Rong R., Ye M., Zhou J., Xu S.-H., Gu J., Shi J.-X., Jin W.-R., Zhang C.-K., Wu T.-M., Huang G.-Y., Chen Z., Chen M.-D., Chen J.-L.;

RT "Gene expression profiling in the human hypothalamus-pituitary-adrenal axis and full-length cDNA cloning";

RL Proc. Natl. Acad. Sci. U.S.A. 97:9543-9548(2000).

[6]

RN RP SEQUENCE FROM N.A.

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Db 61 GGCCTCGCGTGCCTCCAGCGCTCCGACCCCTGATGCTGCGGGTGTGAGCCCGCTTC 120
Qy 121 GGCCTCGCGTGCCTCCAGCGCTCCGACCCCTGATGCTGCGGGTGTGAGCCCGCTTC 180
Db 121 GGCCTCGCGTGCCTCCAGCGCTCCGACCCCTGATGCTGCGGGTGTGAGCCCGCTTC 180
Qy 181 AGTGTTCGCGCGCTTCGCGAGCGGTACCCGAATCCCTATAGCAACATGTCTTGACGA 240
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Qy 361 GGTGTACGTCCTGGAGGACTCTATTGTTGGACCCACAGAAATCAGACCATGACTTTCAC 420
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Db 481 CTCTGACCAACAGTGTGCTGAGTGAATCCCGGGAGCGTATTTCTGCGCAATGTTGCTCAC 540
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Db 601 GACTATGAGGGTTCCTGAGGATTTGCTGCTGCGGAGCGTATTTCTGCGCAATGTTGCTCAC 660
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Db 661 ACTTGTGTGACAGCAGCAAGGAGCGTATTTGCTGCTGCGGAGCGTATTTCTGCGCAATGTTGCTCAC 720
Qy 721 AGAAGAGGCGCAAGGAGCGTATTTGCTGCTGCGGAGCGTATTTCTGCGCAATGTTGCTCAC 780
Db 721 AGAAGAGGCGCAAGGAGCGTATTTGCTGCTGCGGAGCGTATTTCTGCGCAATGTTGCTCAC 780
Qy 781 GTTGTGTGACAGCTGTACACCAACAGCAGCAGCAGCAGCAGCAGCAGCAGCAGCAGCAGCAG 840
Db 781 GTTGTGTGACAGCTGTACACCAACAGCAGCAGCAGCAGCAGCAGCAGCAGCAGCAGCAGCAG 840
Qy 841 CCCTCCCTTCATTGTACT 858
Db 841 CCCTCCCTTCATTGTACT 858
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RESULT 2

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US-09-213-391-2
; Sequence 2: Application US/09213391
; Patent No. 6281190
; GENERAL INFORMATION:
; APPLICANT: Hillman, Jennifer L.
; APPLICANT: Goli, Surya K.
; TITLE OF INVENTION: HUMAN LEA-MOTIF DEVELOPMENTAL
; TITLE OF INVENTION: PROTEIN
; NUMBER OF SEQUENCES: 3
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Incyte Pharmaceuticals, Inc.
; STREET: 3174 Porter Drive
; CITY: Palo Alto
; STATE: CA
; COUNTRY: USA
; ZIP: 94304
```

```
COMPUTER READABLE FORM:
MEDIUM TYPE: Diskette
COMPUTER: IBM Compatible
OPERATING SYSTEM: DOS
SOFTWARE: FastSeq for Windows Version 2.0
CURRENT APPLICATION DATA: US/09/213,391
APPLICATION NUMBER: 08/796,676
CLASSIFICATION:
PRIOR APPLICATION DATA:
APPLICATION NUMBER: 08/796,676
FILLING DATE:
ATTORNEY/AGENT INFORMATION:
NAME: Billings, Lucy J.
REGISTRATION NUMBER: 36,749
REFERENCE/DOCKET NUMBER: PF-0213 US
TELECOMMUNICATION INFORMATION:
TELEPHONE: 415-855-0555
TELEFAX: 415-845-4186
INFORMATION FOR SEQ ID NO: 2:
SEQUENCE CHARACTERISTICS:
LENGTH: 858 base pairs
TYPE: nucleic acid
STRANDEDNESS: single
TOPOLOGY: linear
US-09-213-391-2
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Query Match 100.0%; Score 858; DB 3; Length 858;
Best Local Similarity 100.0%; Pred. No. 4,8e-214;
Matches 858; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
Qy 1 GCGTGTGTGACTGAGCTACGAGCTGCGGCGGCTGTGCGCGGAGCGTATTTCTGCGCAATGTTGCTCAC 60
Db 1 GCGTGTGTGACTGAGCTACGAGCTGCGGCGGCTGTGCGCGGAGCGTATTTCTGCGCAATGTTGCTCAC 60
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Qy 121 GCGGCGGAGCATGTTGAGTATTTCTGCGGCGAGAGCGTGTCTCCGGAGTTCCTGGGACCA 180
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Qy 181 AGTGTTCGCGCGCTTCGCGAGCGGTACCCGAATCCCTATAGCAACATGTCTTGACGA 240
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Qy 241 AGACATAGTACACCGGAGGTGACCCCTGACCAAGAACTGCTGTCCCGGAGTCTCTGAC 300
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Db 481 CTCTGACCAACAGTGTGCTGAGTGAATCCCGGGAGCGTATTTCTGCGCAATGTTGCTCAC 540
Qy 541 TGTGTCTCCAGAGCTGTCCAGGAATTTGGTCTTCCCGGGTTCAAAAGCAACGTGACCA 600
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Qy 601 GACTATGAGGGTTCCTGAGGATTTGCTGCTGCGGAGCGTATTTCTGCGCAATGTTGCTCAC 660
Db 601 GACTATGAGGGTTCCTGAGGATTTGCTGCTGCGGAGCGTATTTCTGCGCAATGTTGCTCAC 660
```

GenCore version 5.1.6
Copyright (c) 1993 - 2003 Compugen Ltd.

OM nucleic - nucleic search, using sw model

Run on: December 9, 2003, 11:04:23 ; Search time 78 seconds
(without alignments)

4855.214 Million cell updates/sec

Title: US-09-892-316-2

Perfect score: 858

Sequence: 1 GCGGTGGTACTGAGCTACG.....TGCCCTCCCTTCATTGTTACT 858

Scoring table: IDENTITY NUC

Gapop 10.0 , Gapext 1.0

Searched: 569978 seqs, 220691566 residues

Total number of hits satisfying chosen parameters: 1139956

Minimum DB seq length: 0

Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%

Maximum Match 100%

Listing first 45 summaries

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6: /cgn2_6/ptodata/2/ina/backfiles1.seq:*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Match	Length	DB	ID	Description
1	858	100.0	858	2	US-08-796-676-2	Sequence 2, Appli
2	858	100.0	858	3	US-09-213-391-2	Sequence 2, Appli
3	853.6	99.5	1549	3	US-09-438-938-8	Sequence 8, Appli
4	853.6	99.5	1549	4	US-09-668-885A-8	Sequence 8, Appli
5	436.2	50.8	601	3	US-09-385-982-365	Sequence 365, App
6	39.2	4.6	642	4	US-09-252-991A-15522	Sequence 15522, A
7	39.2	4.6	822	4	US-09-252-991A-15264	Sequence 15264, A
8	39.2	4.6	993	4	US-09-252-991A-15411	Sequence 15411, A
9	39.2	4.6	1644	4	US-09-252-991A-15473	Sequence 15473, A
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11	39.2	4.5	1626	4	US-09-620-312D-1033	Sequence 1033, Ap
12	38.6	4.5	7218	1	US-08-232-463-14	Sequence 14, Appli
13	38	4.4	1374	4	US-09-252-991A-8560	Sequence 8560, Ap
14	38	4.4	2463	4	US-09-252-991A-8582	Sequence 8582, Ap
15	38	4.4	2748	4	US-09-252-991A-8662	Sequence 8662, Ap
16	37.6	4.4	1392	4	US-09-252-991A-7744	Sequence 7744, Ap
17	37.6	4.4	1905	4	US-09-252-991A-7829	Sequence 7829, Ap
18	37.6	4.4	43280	2	US-08-804-227C-1	Sequence 1, Appli
19	37.2	4.3	3202	4	US-09-287-354-1	Sequence 1, Appli
20	37.2	4.3	6529	3	US-08-789-329C-1	Sequence 1, Appli
21	36.4	4.2	1514	4	US-09-162-524-4	Sequence 4, Appli
22	36.4	4.2	2988	4	US-09-996-243-325	Sequence 325, App
23	36.2	4.2	2571	4	US-09-984-880-1	Sequence 1, Appli
24	36.2	4.2	20966	4	US-09-984-880-3	Sequence 3, Appli
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27	36.2	4.2	28804	3	US-09-096-867-2	Sequence 2, Appli

Sequence 1, Appli
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Sequence 17, Appli
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Sequence 1, Appli
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Sequence 7998, Ap
Sequence 8061, Ap
Sequence 8261, Ap
Sequence 1488, Ap
Sequence 8202, Ap
Sequence 34, Appli
Sequence 165, App
Sequence 15740, A
Sequence 1059, Ap
Sequence 15652, A

28 36 4.2 3935 4 US-09-060-482-1
29 35.8 4.2 289 3 US-09-007-005-17
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ALIGNMENTS

RESULT 1
US-08-796-676-2
; Sequence 2, Application US/08796676
; Patent No. 5858712
; GENERAL INFORMATION:
; APPLICANT: Hillman, Jennifer L.
; APPLICANT: Goli, Surya K.
; TITLE OF INVENTION: HUMAN LEA-MOTIF DEVELOPMENTAL
; TITLE OF INVENTION: PROTEIN
; NUMBER OF SEQUENCES: 3
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Incyte Pharmaceuticals, Inc.
; STREET: 3174 Porter Drive
; CITY: Palo Alto
; STATE: CA
; COUNTRY: USA
; ZIP: 94304
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Diskette
; COMPUTER: IBM Compatible
; OPERATING SYSTEM: DOS
; SOFTWARE: FastSeq for Windows Version 2.0
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/796,676
; FILING DATE: Filed Herewith
; CLASSIFICATION: 424
; ATTORNEY/AGENT INFORMATION:
; NAME: Billings, Lucy J.
; REGISTRATION NUMBER: 36,749
; REFERENCE/DOCKET NUMBER: PF-0213 US
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: 415-855-0555
; TELEFAX: 415-845-4166
; INFORMATION FOR SEQ ID NO: 2:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 858 base pairs
; TYPE: nucleic acid
; STRANDEDNESS: single
; TOPOLOGY: linear
US-08-796-676-2

Query Match 100.0%; Score 858; DB 2; Length 858;
Best Local Similarity 100.0%; Pred. NO. 4.8e-214;
Matches 858; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

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http://fulllength.invitrogen.com/Invitrogen Corporation 1600
Faraday Avenue Genoscope sequence ID : CS0DJ010CB08Qp1.

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Db 936 CCT 953
RESULT 2
LOCUS BC018904 1252 bp mRNA
DEFINITION Homo sapiens, clone IMAGE:3957371, mRNA.
ACCESSION BC018904
VERSION BC018904.1 GI:17403027
KEYWORDS HTC.
SOURCE Homo sapiens (human)
ORGANISM Homo sapiens
Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo.
1 (bases 1 to 1252)
Strausberg,R.
Direct Submission
Submitted (07-DEC-2001) National Institutes of Health, Mammalian
Gene Collection (MGC), Cancer Genomics Office, National Cancer
Institute, 31 Center Drive, Room 11A03, Bethesda, MD 20892-2590,
USA
NIH-MGC Project URL: http://mgc.nci.nih.gov
Contact: MGC help desk
Email: cgapbs@mail.nih.gov
Tissue Procurement: ATCC
CDNA Library Preparation: Rubin Laboratory
CDNA Library Arrayed by: The I.M.A.G.E. Consortium (LLNL)
DNA Sequencing by: National Institutes of Health Intramural
Sequencing Center (NISC),
Gaithersburg, Maryland;
Web site: http://www.nisc.nih.gov/
Contact: nisc.mgc@nih.gov
Shevchenko,Y., Wetherby,K.D., Beckstrom-Sternberg,S.M.,
Benjamin,B., Blakesley,R.W., Bouffard,G.G., Brinkley,C., Brooks,S.,
Dietrich,N.L., Guan,X., Gupta,J., Ho,S.-L., Karlins,E., Legaspi,R.,
Lim,M., Maduro,Q.L., Masello,C., Mastrian,S.D., McCloskey,J.C.,
McDowell,J., Pearson,R., Snyder,B., Stantripop,S., Thomas,P.J.,
Tiongson,E.E., Touchman,J.W., Tsurgeon,C., Vogt,J.L., Walker,M.A.,
Zhang,L.-H. and Green,E.D.
Clone distribution: MGC clone distribution information can be found
through the I.M.A.G.E. Consortium/LLNL at: http://image.llnl.gov
Series: IRAL Plate: 15 Row: d Column: 4
This clone was selected for full length sequencing because it
passed the following selection criteria: Hexamer frequency ORF
analysis, GenomScan gene prediction
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/clone="IMAGE:3957371"
/issue_type="Placenta, choriocarcinoma"
/clone_lib="NIH MGC 21"
/lab_host="DH10B-R"
/note="Vector: pOTB7"
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ORIGIN
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Best Local Similarity 100.0%; Pred. No. 3.6e-202;
Matches 858; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
Qy 1 GCGGTGTGACTGAGTACGAGCTGCGCGGGTGTGCGCGAGCCCGCGCGCGCGCG 60

GenCore version 5.1.6
Copyright (c) 1993 - 2003 Compugen Ltd.

OM nucleic - nucleic search, using sw model

Run on: December 9, 2003, 11:03:38 ; Search time 2592 Seconds
(without alignments)
8045.232 Million cell updates/sec

Title: US-09-892-316-2

Perfect score: 858

Sequence: 1 GCGGTGGTGACTGAGCTAGC.....TGCCCTCCCTTCATTGTACT 858

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Searched: 22781392 seqs, 12152238056 residues

Total number of hits satisfying chosen parameters: 45562784

Minimum DB seq length: 0

Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%

Maximum Match 100%

Lasting first 45 summaries

Database :

EST:*

1: em estba:*

2: em esthum:*

3: em estin:*

4: em estmu:*

5: em estov:*

6: em estpl:*

7: em estro:*

8: em htc:*

9: gb est1:*

10: gb est2:*

11: gb htc:*

12: gb est3:*

13: gb est4:*

14: gb est5:*

15: em estfun:*

16: em estom:*

17: em gss hum:*

18: em gss inv:*

19: em gss pin:*

20: em gss vrt:*

21: em gss fun:*

22: em gss nam:*

23: em gss mus:*

24: em gss pro:*

25: em gss rod:*

26: em gss phg:*

27: em gss vrl:*

28: gb gss1:*

29: gb gss2:*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

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5	830.8	96.8	1060	12	BM550706
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7	827.6	96.5	1201	9	AL529652
8	826.6	96.3	1030	12	BQ62861
9	825	96.2	945	13	BU175909
10	824.8	96.1	883	13	BU542503
11	822.2	95.8	938	12	BM541438
12	815.2	95.0	1054	9	AL558504
13	813	94.8	911	13	BU166159
14	813	94.8	953	13	BQ279042
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16	809.6	94.4	1172	13	EX404186
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19	790	92.1	878	13	BQ228147
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21	780.2	90.9	873	13	BU179062
22	779.8	90.9	887	13	BQ430303
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24	768.2	89.5	880	12	BI258096
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26	763.8	89.0	844	13	BQ218078
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28	756	88.1	889	12	BI759285
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32	751.4	87.6	922	13	BQ937888
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40	738.4	86.1	843	9	AL583524
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ALIGNMENTS

RESULT 1
AL559031

LOCUS

DEFINITION

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AL559031 Homo sapiens cDNA clone CS0DJ010YD15 5-PRIME, mRNA sequence.

ACCESSION

VERSION

KEYWORDS

SOURCE

ORGANISM

REFERENCE

AUTHORS

TITLE

JOURNAL

COMMENT

1062 bp mRNA linear EST 31-MAY-2003
Homo sapiens cDNA clone CS0DJ010YD15 5-PRIME, mRNA sequence.

AL559031.2 GI:31283164

EST.

Homo sapiens (human)

Homo sapiens

Eukaryota; Metazoa; Chordata; Vertebrata; Euteleostomi;

Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo.

1 (bases 1 to 1062)

Li, W.B., Gruber, C., Jessee, J. and Polayes, D.

Full-length cDNA libraries and normalization

Unpublished

On Feb 15, 2001 this sequence version replaced gi:12904128.

Contact: Genoscope

Genoscope - Centre National de Sequencage

BP 191 91006 EVRY cedex - France

Email: seqref@genoscope.cns.fr, Web : www.genoscope.cns.fr

was normalized. Library was constructed by Life Technologies, a

division of Invitrogen. This sequence belongs to sequence cluster

3031.f For more information about this cluster, see

http://www.genoscope.cns.fr/

cgi-bin/cluster.cgi?seq=CS0DJ010CB080P1&cluster=3031.f. Contact :

Feng Liang Email : fliang@lifetech.com URL :

GenCore version 5.1.6
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OM nucleic - nucleic search, using sw model
Run on: December 9, 2003, 10:33:38 ; Search time 3494 Seconds
(without alignments)
10045.924 Million cell updates/sec

Title: US-09-892-316-2
Perfect score: 858
Sequence: 1 GCGGTGGTACTGACTAGG.....TGCCCTCCCTTCATTGTA 858

Scoring table: IDENTITY_NUC
Gapop 10.0 , Gapext 1.0
Searched: 2888711 seqs, 20454813386 residues
Total number of hits satisfying chosen parameters: 5777422

Minimum DB seq length: 0
Maximum DB seq length: 2000000000
Post-processing: Minimum Match 0%
Maximum Match 100%
Listing first 45 summaries

Database : GenEmbl.*

- 1: gb.ba.*
- 2: gb.htg.*
- 3: gb.in.*
- 4: gb.om.*
- 5: gb.ov.*
- 6: gb.pat.*
- 7: gb.ph.*
- 8: gb.pl.*
- 9: gb.pr.*
- 10: gb.ro.*
- 11: gb.sts.*
- 12: gb.sy.*
- 13: gb.un.*
- 14: gb.vi.*
- 15: em.ba.*
- 16: em.fun.*
- 17: em.hum.*
- 18: em.in.*
- 19: em.mu.*
- 20: em.om.*
- 21: em.or.*
- 22: em.ov.*
- 23: em.pat.*
- 24: em.ph.*
- 25: em.pl.*
- 26: em.ro.*
- 27: em.sts.*
- 28: em.un.*
- 29: em.vi.*
- 30: em.htg_hum.*
- 31: em.htg_inv.*
- 32: em.htg_other.*
- 33: em.htg_mus.*
- 34: em.htg_pln.*
- 35: em.htg_rod.*
- 36: em.htg_mam.*
- 37: em.htg_vrt.*
- 38: em_sy.*
- 39: em_htgo_hum.*
- 40: em_htgo_mus.*
- 41: em_htgo_other.*

Pred. No. is the number of results predicted by chance to have a

score greater than or equal to the score of the result being printed,
and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	DB	ID	Description
1	858	100.0	858	6	AR028528	Sequence
2	858	100.0	858	6	AR16506	Sequence
3	858	100.0	958	9	BC008866	Homo sapi
4	858	100.0	990	9	BC000007	Homo sapi
5	858	100.0	1006	9	AF111112	Homo sapi
6	858	100.0	1217	9	AF151864	Homo sapi
7	858	100.0	1227	9	BC008307	Homo sapi
8	858	100.0	1243	9	BC007268	Homo sapi
9	858	100.0	1287	9	BC013748	Homo sapi
10	853.6	99.5	1549	6	AR134592	Sequence
11	853.6	99.5	1549	6	AR224016	Sequence
12	844	98.4	956	9	BC013733	Homo sapi
13	841.4	98.1	943	9	AF153607	Homo sapi
14	811.6	94.6	218836	9	AC016734	Homo sapi
15	810	94.4	193041	9	AC092017	Homo sapi
16	780.4	91.0	1191	9	AF112203	Homo sapi
17	777.4	90.6	40639	9	AL359535	Human DNA
18	769.6	89.7	181482	9	AC143357	Pan trogl
19	766.4	89.3	1008	9	AF201925	Homo sapi
20	738.4	86.1	185062	9	AC021231	Homo sapi
21	631.6	73.6	183604	9	AC022022	Homo sapi
22	613.2	71.5	1103	10	BC025859	Mus muscu
23	590	68.8	177054	2	AC126897	Rattus no
24	590	68.8	225563	2	AC134653	Rattus no
25	569.4	66.4	213940	2	AC110508	Mus muscu
26	567.6	66.2	206627	2	AC137405	Rattus no
27	567.6	66.2	208649	2	AC110444	Rattus no
28	567.4	66.1	106019	10	AL627086	Mouse DNA
29	567.4	66.1	177133	10	AL627074	Mouse DNA
30	564	65.7	207629	10	AL645637	Mouse DNA
31	535	62.4	593	6	BD108371	EST and e
32	532.8	62.1	249301	2	AC109524	Rattus no
33	532.8	62.1	260579	2	AC130181	Rattus no
34	532.8	62.1	288827	2	AC098254	Rattus no
35	513.4	59.8	899	10	BC024813	Mus muscu
36	471.6	55.0	190806	2	AC144798	Mus muscu
37	464.4	54.1	208265	10	AL606907	Mouse DNA
38	464.4	54.1	219825	10	AC098886	Mus muscu
39	430.8	50.2	189667	2	AC123185	Rattus no
40	427.4	49.8	170952	9	HS501N12	Human DNA
41	423	49.3	872	5	GGU31977	Gallus gall
42	421.8	49.2	80457	9	AL157714	Human DNA
43	421.8	49.2	179357	2	AC009625	Homo sapi
44	414	48.3	108296	2	AC112815_3	Continuation (4 of
45	414	48.3	181070	2	AC142187	Rattus no

ALIGNMENTS

RESULT 1
AR028528
LOCUS
DEFINITION
ACCESSION
VERSION
KEYWORDS
SOURCE
ORGANISM
REFERENCE
AUTHORS
TITLE
JOURNAL

AR028528
Sequence 2 from patent US 5858712.
AR028528
AR028528.1 GI:5940501
Unknown.
Unknown.
Unclassified.
1 (bases 1 to 858)
Hillman, J.L. and Goli, S.K.
CDNA encoding a LEA-motif developmental protein homologous to avian
px19
Patent: US 5858712-A 2 12-JAN-1999;

858 bp
DNA
linear
PAT 29-SEP-1999